



Form 1449 (Modified)	Atty Docket No. SANDP045
Information Disclosure Statement By Applicant	Application No.: 10/696,228
(Use Several Sheets if Necessary)	Inventor CHANG, Robert C. et al.
	Group 2186
	Filing Date October 28, 2003
	Mailing Date April 13, 2004

U.S. Patent or Published Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub- Class
U/E	A	5,930,193	07/1999	Achiwa et al.	365	230.03

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub- class
U/E	B	WO 00/14641	3/16/2000	WIPO		

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication

Examiner	Kevin L. Ellis	Date Considered	11/1/05
----------	----------------	-----------------	---------

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Atty Docket No. SANDP045 Application No.: 10/696,228 Inventor Robert C. Chang et al. Group Unassigned Filing Date October 28, 2003 Mailing Date December 11, 2003
--------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

U.S. Patent or Published Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
U/E	A	5,222,109	6/22/93	Pricer	377	24.1	12/28/90
	B	5,297,148	3/22/94	Harari et al.	371	10.2	10/20/92
	C	5,388,083	2/7/95	Assar et al.	365	218	3/26/93
	D	5,438,573	8/1/95	Mangan et al.	371	10.3	6/1/94
	E	5,568,439	10/22/96	Harari	365	218	6/6/95
	F	5,598,370	1/28/97	Nijima et al.	365	185.33	4/26/95
	G	5,835,935	11/10/98	Estakhri et al.	711	103	9/13/95
	H	5,845,313	12/1/98	Estakhri et al.	711	103	7/31/95
	I	5,860,082	1/12/99	Smith et al.	711	103	3/28/96
	J	5,907,856	5/25/99	Estakhri et al.	711	103	3/31/97
	K	5,924,113	7/13/99	Estakhri et al.	711	103	5/29/98
	L	6,016,275	1/18/00	Han	365	185.29	11/4/98
	M	6,081,447	6/27/00	Lofgren, et al.	365	185.02	3/5/99
	N	6,115,785	9/5/00	Estakhri et al.	711	103	5/13/99
	O	6,125,435	9/26/00	Estakhri et al.	711	201	11/24/97
	P	6,230,233	5/8/01	Lofgren, et al.	711	103	9/13/91
	Q	6,260,156	7/10/01	Garvin et al.	714	8	12/4/98
U/E	R	6,426,893	7/30/02	Conley et al.	365	185.11	2/17/00

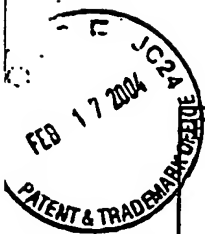
Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
U/E	S	62-283496	12/9/87	JP			X	
U/E	T	62-283497	12/9/87	JP			X	

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
U/E	U	Kim, Jesung et al., "A Space-Efficient Flash Translation Layer for Compactflash Systems", IEEE Transactions on Consumer Electronics, Vol. 48, No. 2, May 2002
Examiner	Kevin L. Ellis	Date Considered 11/1/05

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered.
Include copy of this form with next communication to applicant.



Form 1449 (Modified)	Atty Docket No. SANDP045
Information Disclosure Statement By Applicant	Application No.: 10/696,228
(Use Several Sheets if Necessary)	Inventor CHANG, Robert et al.
	Group 2186
	Filing Date October 28, 2003
	Mailing Date February 12, 2004

U.S. Patent or Published Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date

Foreign Patent or Published Foreign Patent Application

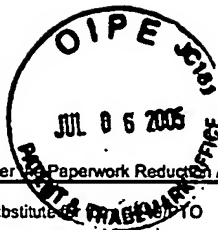
Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
UK	A	0 589 597 A2	03/30/1994	EPO				

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication

Examiner Kevin L. Ellis	Date Considered 11/1/05
-------------------------	-------------------------

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	10/696,228
Filing Date	10/28/2003
First Named Inventor	Chang et al.
Art Unit	2188
Examiner Name	Padmanabhan
Attorney Docket Number	SANDP045

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
UR		US- 6226759	05-2001	Miller et al.	
		US- 6009496	12-1999	Tsai	
		US- 5954828	09-1999	Lin	
		US- 6282605 B1	08-2001	Moore	
		US- 6381176 B1	04-2002	Kim et al.	
		US- 6523132 B1	02-2003	Harari et al.	
		US- 6694402	02-2004	Muller	
		US- 6741486	05-2004	Sakui	
		US- 6683817	01-2004	Wei et al.	
		US- 5406529	04-1995	Asano	
		US- 6604168	08-2003	Ogawa	
		US- 5737742	04-1998	Achiwa et al.	
		US- 5568423	10-1996	Jou et al.	
		US- 5963473	10-1999	Norman	
		US- 6732221	05-2004	Ban	
UR		US- 5956473	09-1999	Ma et al.	
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ *Number ⁴ *Kind Code ⁵ (if known)				

Examiner Signature	Kevin L. Ellis	Date Considered	11/1/05
--------------------	----------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/696,228
Filing Date	10/28/2003
First Named Inventor	Chang et al.
Art Unit	2188
Examiner Name	Padmanabhan
Attorney Docket Number	SANDP045

Sheet

2

of

2

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
UR		CHIANG et al., "Managing Flash Memory in Personal Communication Devices", International Symposium on Consumer Electronics (IEEE, 1997), pp. 177-82.	
UR		CHANG et al., "An Adaptive Striping Architecture for Flash Memory Storage Systems of Embedded Systems", 8th Real-Time and Embedded Tech. and Appl. Symp.(IEEE, Sept. 24, 2002).	

Examiner
Signature

Kevin L. Ellis

Date
Considered

11/1/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.